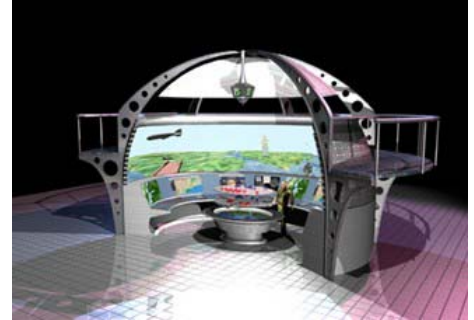


## Human Decision Making and Command and Control

**Purpose:** Develop the concept, design, and elements of a prototype command post of the future, integrating fundamental research and experimentation utilizing military commanders and existing command post technology, and also integrating the Marine Corps future concept for command and control (C2).

**Background:** Project Albert has been participating in, and lending support to, the recently formed Marine Corps Combat Development Command (MCCDC) Command Element Integration Working Group (CEIWG). In addition, a six-year collaborative agreement between the Marine Corps Warfighting Lab and the Swedish National Defense College (NDC), which performs fundamental research and experiments using military commanders and existing command post technology, has recently been signed. Project Albert has also been working on distillation simulations of combat and been working on synthesis and visualization techniques for the past four years. All of these efforts naturally dovetail to accomplish the above stated purpose.

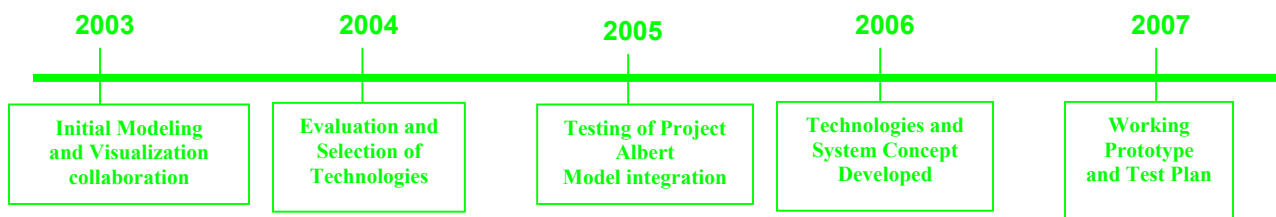


**Description:** The following will be accomplished under the collaborative agreement: (a) Evaluate current technology for agent-based simulations, research on human psychology, visual representations and forms of interaction. (b) Assess, select, develop, and enhance distillations on tactical, operational and strategic levels of conflicts across the spectrum of intensity and lethality to include those that include intrinsic human characteristics; across levels of fidelity. (c) Develop and test variable fidelity models of agent-based simulations including intrinsic human characteristics, visual representations and forms of interaction. (d) Develop and test preliminary system concepts for distillations including intrinsic human characteristics, visual representations and forms of interaction, and advanced experiments.

Project Albert will also integrate CEIWG recommendations across all areas of research and development. The CEIWG is developing a comprehensive capabilities-based C2 plan that supports the commander's requirements to conduct operations in the execution of Expeditionary Maneuver Warfare (EMW) scenarios in 2009 and beyond, and synchronizes doctrine, organization, training, material, leadership, personnel and facilities (DOTMLPF) actions necessary to enable C2 in support of EMW.

**Deliverable Products:** Assessment report describing the concept, design, and elements of a C2 prototype, plus working elements of that prototype, and DOTMLPF recommendations.

### Milestones:



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